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NOTICE OF ALLOWANCE AND FEE(S) DUE

22470

7590

11/12/2010

HAYNES BEFFEL & WOLFELD LLP P O BOX 366 HALF MOON BAY, CA 94019 EXAMINER

SUGLO, JANET L

ART UNIT PAPER NUMBER

2857

DATE MAILED: 11/12/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/587,482	03/26/2008	Lars Stiblert	MLSE 1070-1/P00197	5178

TITLE OF INVENTION: METHOD FOR MEASURING THE POSITION OF A MARK IN A DEFLECTOR SYSTEM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	02/14/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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22470 75	590 11/12/2010		EXAM	INER
HAYNES BEFFEL & WOLFELD LLP			SUGLO, JANET L	
P O BOX 366			ART UNIT	PAPER NUMBER
HALF MOON BAY, CA 94019			2857	
			DATE MAILED: 11/12/201	0

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 224 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 224 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)		
	10/587,482	STIBLERT ET AL.		
Notice of Allowability	Examiner	Art Unit		
	JANET L. SUGLO	2857		
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to amendments filed 9/2	(OR REMAINS) CLOSED in or other appropriate commits application is and MPEP 1308.	n this application. If not included unication will be mailed in due course. THIS		
2. ☑ The allowed claim(s) is/are <u>2-8 and 11-17</u> .				
 Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). 	e been received. e been received in Applicati	on No		
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submit to the submit of the submit to the submit of the submit to the submit of t	IENT of this application. itted. Note the attached EX	AMINER'S AMENDMENT or NOTICE OF		
INFORMAL PATENT APPLICATION (PTO-152) which give	. ,	or declaration is delicient.		
 CORRECTED DRAWINGS (as "replacement sheets") mus (a) ☐ including changes required by the Notice of Draftspers 		w (PTO-948) attached		
(a) ☐ including changes required by the Notice of Dianspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date	•	w (F 10-940) attached		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1	s Amendment / Comment o	the drawings in the front (not the back) of		
 each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. 				
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 10/14/10 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview S Paper No 7. ☑ Examiner's	nformal Patent Application Summary (PTO-413), /Mail Date s Amendment/Comment s Statement of Reasons for Allowance		

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DETAILED ACTION

Drawings

1. The drawings were received on September 23, 2010. These drawings are acceptable.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Ernest J. Beffel, Jr. (Reg. No. 43,489) on November 5, 2010.

The application has been amended as follows:

Claim 9 is hereby cancelled.

Allowable Subject Matter

- 3. Claims 2-8 and 11-17 are allowed.
- 4. The following is an examiner's statement of reasons for allowance:

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With respect to **claim 2**, Stern teaches a method for determining coordinates of an arbitrarily shaped pattern on a surface in a deflector system (Stern: Figure 3A; col 3, ln 31-56; col 6, ln 24-62), including:

- a) selecting a reference clock signal that defines a movement in a first direction (X) (Stern: col 1, ln 59-63; col 4, ln 55-57; col 5, ln 19-22),
- b) providing a micro sweep that repeatedly scans the surface in a second direction (Y), perpendicular to the first direction (X) (Stern: col 1, ln 55 col 2, ln 9; col 3, ln 45-56);
- c) selecting a measurement clock signal that is related to the signal used to start each micro sweep in the second direction (Y) (Stern: col 5, In 17-60),
- d) adjusting the speed of the movement in the first direction (X) to determine the distance between the start of each micro sweep (Stern: col 5, ln 17-60),
 - e) performing a first run that include the steps of:
- e1) starting a first micro sweep at a starting position (Stern: Figure 6; col 5, ln 13-26),
- e2) detecting the arbitrarily shaped pattern when the pattern is moved in the first direction (X) relative the deflector system (Stern: Figure 13; col 1, ln 55 col 2, ln 19; col 3, ln 45-56; col 5, ln 31-52).

Stern does not *explicitly* teach counting scan lines to detect the edge of the pattern. Blazek teaches

e3) generating at least one event if the edge of the pattern is detected (Blazek: col 6, ln 32-38), and

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e4) counting the number of micro sweeps performed until each event is generated (Blazek: col 5, ln 10-18; col 6, ln 50-58), and

f) calculating a coordinate of the edge, for each event, in the first direction (X) using the number of performed micro sweeps (Blazek: col 3, ln 63 – col 4, ln 9; col 6, ln 50-58; col 9, ln 16-25).

Neither Stern nor Blazek teach more than one run as defined in step e) is preformed, for each run the starting position in step e1) is pseudo randomly selected, thereby generating pseudo randomly distributed micro sweeps between each run.

With respect to **claim 12**, Stern teaches a method for determining coordinates of an arbitrarily shaped pattern in a deflector system (Stern: Figure 3A; col 3, ln 31-56; col 6, ln 24-62), including:

moving the pattern in a first direction (X), calculating the position of the pattern by carrying out micro sweeps, performed in a perpendicular direction (Y), until the pattern is detected, and determining the coordinates by relating the micro sweeps to the speed of the movement of the pattern (Stern: col 1, ln 55 – col 2, ln 19; col 3, ln 45-56; col 5, ln 31-52). Stern does not *explicitly* teach counting scan lines to detect the edge of the pattern. Blazek teaches counting scan lines to detect the edge of the pattern (Blazek: col 5, ln 1-18; col 5, ln 63-68; col 6, ln 32-38; col 7, ln 6-40; col 11, ln 14-20). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Stern to include counting scan lines to detect edges as done by Blazek because this ensure proper alignment in a quick and efficient manner.

Neither Stern nor Blazek teach an off-set in the first direction (X) for the first micro sweep is pseudo randomly selected for each run.

Claims 2-8 are allowable over the prior art because the combination of limitations including especially the starting position in step e1) is pseudo randomly selected, thereby generating pseudo randomly distributed micro sweeps between each run is not found, taught or suggested in the prior art of record.

Claims 11-17 are allowable over the prior art because the combination of limitations including especially an off-set in the first direction (X) for the first micro sweep is pseudo randomly selected for each run is not found, taught or suggested in the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JANET L. SUGLO whose telephone number is (571)272-8584. The examiner can normally be reached on M-F from 9:00am - 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eliseo Ramos-Feliciano can be reached on 571-272-7925. The fax phone

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number for the organization where this application or proceeding is assigned is 571-

273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/JANET L SUGLO/

Examiner, Art Unit 2857

/Eliseo Ramos-Feliciano/ Supervisory Patent Examiner, Art Unit 2857